Hi Shalen,

Given below  is a High level analysis of digital labs.

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| --- | --- | --- | --- |
| Features available | Source labs | Digital labs | Comments |
| Video of the script executed with screenshots logs , metadata network info ,  Commands executed | provided | Not provided | This is essential for us for debugging and also for proof of the correctness of the test execution |
| MAC operating system | provided | Not provided | We need this as this is one of the main operating system that we test on  and we have school users using this operating system with chrome firefox and safari browsers |
| Parallel execution of scripts on the same device | possible | Not possible | The device gets locked in digital labs and does not get released until one script execution is over. This increases our execution time |
| Current co-operate which only around USD 7000 licences provide over 3000  operating systems browsers simulators and emulator combinations for automation | provided | Less combinations | Open text will cost a lot more to add different combinations required as these are purchased through aws device farms ext by digital labs |
| Different screen resolution sizes are provided for automates testing and manual | provided | Not provided | We require this for testing as you get users with different screen resolution sizes |
| Ability perform manual testing and save the screenshots and recordings of it with the test results | Provided | Not provided | This is required for proof of correct test execution and to keep record of it for  any analysis and debugging |
| Ability to perform App testing | possible | possible |  |
| Integration with jenkins | possible | possible |  |
| Parallel and concurrent  and cross browser execution on browsers | possible | possible |  |
| Virtual machines | provided | Physical machines provided | Having virtual means fewer hardware resources and cost savings. Not having virtual could mean increase in their licence cost compare to other vendors as it will be costly to manage the device lab |
| licence also include the ability do visual testing across browsers and devices generate performance baselines ,api testing and visual testing ext | provided | Not provided as part of digital labs |  |

Other drawback of moving to digital labs from sauce labs

* Most of their resources are catered to help integration with UFT and not open source frameworks therefore finding resource and support for open source is very limited
* Moving to it would require script updates including the setup java file re-written as how the capabilities are captured are different and its not so easy configure cross browser testing as sauce labs

Note:-

Licencing requirements for sws education

* We would need 5 concurrent licences and parallel executions(for browser/os combinations and devices )dedicated for just our projects(EDU and SWS) without requiring to reserve ext as we use automation quite extensively for our release testing.

Regards,

Shamra